

## EAST Search History

Ref #	Hits	Search Query	DBs	Default Operator	Plurals	Time Stamp
L1	2	("6156928").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/17 08:51
L2	2	("6143921").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/17 08:51
L3	2	("6180821").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/17 08:51
L4	2	("6040474").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/17 08:51
L5	2	("6670504").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/17 08:51
L6	9	L1 OR L2 OR L3 OR L4 OR L5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/17 08:51
L7	2	"6790983".pn.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/17 08:51
L8	254	(562/549).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/17 08:51
L9	157	(562/544).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/17 08:51
L10	393	L9 or L8	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/17 08:51
L11	8415633	CO or (carbon adj monoxide)	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/17 08:51

## EAST Search History

L12	176	L11 and L10	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/17 08:51
L13	2	L5	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/17 08:51
L14	220	(560/241).CCLS.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/17 08:51
L15	86	L11 and L14	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/17 08:51
L16	1419402	feed	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/17 08:51
L17	2534102	feed or starting	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/17 08:51
L18	599	L10 or L14	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/17 08:51
L19	22117	L11 near10 L17	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/17 08:51
L20	22117	L17 and L19	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/17 08:51
L21	39	L18 and L19	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/17 08:51
L22	1423	((alkene or olefin or alkane) and carboxylic and (carbon adj monoxide or CO)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/17 08:51
L23	115	((alkene or olefin or alkane) same carboxylic same (carbon adj monoxide or CO)).clm.	US-PGPUB	OR	ON	2007/04/17 08:51

## EAST Search History

L24	14431	L11 near5 L17	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/17 08:51
L25	5	"l29" and L19	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/17 08:51
L26	318	((alkene or olefin or alkane) same carboxylic same (carbon adj monoxide or CO)).clm.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/17 08:51
L27	0	((alkene or olefin or alkane) near10 carboxylic near10 (carbon adj monoxide or CO) near10 (percent or "%")).clm.	US-PGPUB	OR	ON	2007/04/17 08:51
L28	5	((alkene or olefin or alkane) near10 carboxylic near10 (carbon adj monoxide or CO) and (percent or "%")).clm.	US-PGPUB	OR	ON	2007/04/17 08:51
L29	25	((alkene or olefin or alkane) same carboxylic same (carbon adj monoxide or CO) and (percent or "%")).clm.	US-PGPUB	OR	ON	2007/04/17 08:51
L30	20	L29 not L28	US-PGPUB	OR	ON	2007/04/17 08:51
L31	2	("3059007").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/17 08:51
L32	2	("6476261").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/17 08:51
L33	0	("l8andi34").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/17 08:51
L34	1	L11 and L32	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/17 08:51
L35	2	("7078563").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/17 08:51
L36	2	L11 and L35	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	ON	2007/04/17 08:51

## EAST Search History

L37	2	("6548697").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/17 08:51
L38	2	("6727380").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/17 08:51
L39	2	("6225496").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/17 08:51
L40	0	("7211688").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/17 08:51
L41	2	("20050085659").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/17 08:51
L42	2	("6342628").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/17 08:51
L43	2	("6225496").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/17 08:51
L44	2	("6258978").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/17 08:51
L45	2	("6350901").PN.	US-PGPUB; USPAT; EPO; JPO; DERWENT	OR	OFF	2007/04/17 08:51

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28626 COS  
L2 894516 CO  
(CO OR COS)

=> 11 or 12  
L3 936068 L1 OR L2

=> alken or olefin or alkane  
535 ALKEN  
2 ALKENS  
537 ALKEN  
(ALKEN OR ALKENS)

101309 OLEFIN  
103539 OLEFINS  
158168 OLEFIN  
(OLEFIN OR OLEFINS)

39868 ALKANE  
72546 ALKANES  
88025 ALKANE  
(ALKANE OR ALKANES)

L4 239284 ALKEN OR OLEFIN OR ALKANE

=> 13(1)1  
L5 15303 L3(L)L4

=> carboxylic  
248619 CARBOXYLIC  
48 CARBOXYLICS

L6 248639 CARBOXYLIC  
(CARBOXYLIC OR CARBOXYLICS)

=> 15 (1)16  
L7 692 L5 (L)L6

=> 15(1)16  
L8 692 L5(L)L6

=> percent or "%"  
'''' NOT VALID HERE

=> percent  
89312 PERCENT  
1840 PERCENTS

L9 90879 PERCENT  
(PERCENT OR PERCENTS)

=> %  
L10 0 %

=> "%"  
'''' NOT VALID HERE

=> '%'  
'''' NOT VALID HERE

=> 19 (1)18  
L11 1 L9 (L)L8

=> d l11 rti fbib abs  
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SBIB ----- BIB, no citations  
SIBIB ----- IBIB, no citations  
  
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its structure diagram  
HITSEQ ----- HIT RN, its text modification, its CA index name, its  
structure diagram, plus NTE and SEQ fields  
FHITSTR ----- First HIT RN, its text modification, its CA index name, and  
its structure diagram  
FHITSEQ ----- First HIT RN, its text modification, its CA index name, its  
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=> d l11 ti fbib abs

L11 ANSWER 1 OF 1 CAPLUS COPYRIGHT 2007 ACS on STN  
TI Carboxylic acids  
AN 1963:32931 CAPLUS  
DN 58:32931  
OREF 58:5519f-g

TI Carboxylic acids  
IN Vos, Johan M.; de Vries, Rudi  
PA Shell Oil Co.  
SO 4 pp.  
DT Patent  
LA Unavailable  
FAN.CNT 1

	PATENT NO.	KIND	DATE	APPLICATION NO.	DATE
PI	US 3059007		19621016	US 1961-79967 NL	19610103 19600115

AB In the catalytic addition of CO and H<sub>2</sub>O to olefins, higher yields and purer carboxylic acids are obtained if polyunsatd. compds. are removed from the feed stock, preferably by selective hydrogenation. Thus, an olefinic stock (A) from cracking paraffin wax was hydrogenated over NiS on Al<sub>2</sub>O<sub>3</sub> at 250-60° and 10 atmospheric to give stock B. Properties of A and B, resp.: maleic anhydride number 48, 0.2; b.p. 133-67°, 135-84°; Br number 107, 94; percent composition monoolefins 72, 76; diolefins 5, 0; aromatics 7, 7; alkanes 12, 13; cycloalkanes. 4, 4. In continuous operation 275 g. feed stock and 1175 g. catalyst (H<sub>3</sub>PO<sub>4</sub>-BF<sub>3</sub>-H<sub>2</sub>O = 1: 1: 1 molar) per hr. were fed into a stirred pressure vessel with CO to maintain 100 atmospheric; temperature 60°. Addition of feed and withdrawal of product were such as to maintain 3 l. liquid in the vessel with residence time 2.5-3 hrs. After 7 days running, feed A was producing product containing 38.2% carboxylic acids and 23.0% polymeric organic material; corresponding values from B were 62.9 and 9.0%, resp.

=> logoff hold  
COST IN U.S. DOLLARS

SINCE FILE ENTRY	TOTAL SESSION
27.50	27.71

FULL ESTIMATED COST

DISCOUNT AMOUNTS (FOR QUALIFYING ACCOUNTS)

SINCE FILE ENTRY	TOTAL SESSION
-0.78	-0.78

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